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Other Views: INPADOC Integrated The Delphion View JP4250698A2: COOLING MODULE FOR ELECTRONIC CIRCUIT

JP Japan Country:

Kind:

CHAO-FAN CHU RICHARD Inventor(s):

No Image

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Sept. 7, 1992 / March 18, 1991 Issued/Filed Dates:

JP1991000052434 Application Number: H05K 7/20; F25D 3/10; IPC Class: April 18, 1990 US199000510756 Priority Number(s): Purpose: To provide a high performance cooling module for electronic circuit.

Abstract:

transmission area. When it is used under nonboiling state, a groove is made in the surface at the leg part of the piston member touching at the leg part and a channel between the leg parts and convection piston member. The piston member serves to increase the surface conduction cooling. An insulating cooling medium being fed to the central part of each group of piston members flows on the surface cooling enhanced by a jet flow takes place at the lower part of the projecting from the leg part of the piston member increases heat contact with each integrated circuit chip 204 on a substrate. The rectangular leg part touching the chip for the purpose of thermal area where forced convectional cooling takes place. Microfins Constitution: A group of piston members 210 is brought into piston member is provided, on the bottom thereof, with a



http://www.delphion.com/details?pn=JP04250698A2

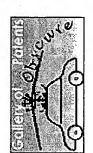
the chip in order to bring the cooling medium into contact with boundary surface between the chip and the piston member. Consequently, upper part of the piston member is immersed into the insulating cooling medium and cooled. COPYRIGHT: (C)1992,JPO

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Family: Show known family members

Other Abstract Info: DERABS G91-311977

Foreign References: No patents reference this one



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